Mobile Application

ICAR-National Research Centre for Orchids
Pakyong-737106, East Sikkim
App Description

Orchids have very wide range of distribution in India. Orchids are the most evolved family of monocotyledonous plants and is represented by nearly 25,000 to 35,000 species belonging to 1000 *generas*. More than 1350 species of orchids are found in India. The Orchid Farming mobile app has been designed and developed by ICAR- National Research Centre for Orchids, Pakyong, Sikkim to impart scientific knowledge and skills to the farmers/growers / Entrepreneur and orchid lovers who want to grow orchids. This is an educational App providing information on about different aspects of orchids management by choosing their selective measures. Mostly in orchid farming, Cymbidium & Dendrobium in North-East India, and Dendrobium, Phalaenopsis, Vanda & Mokara hybrids in South India, are cultivated. Our android application helps to orchid growers for implementation of better and timely farming decisions by applying the management skills.

Govt. of India has launched a massive program on digital India to make ICT helpful for agriculture purpose but the hindrance in the literacy of farmers mobile being a common device now, with this application we aim to make it friendly with updated information for Orchid growers.

The App can be downloaded from below link or scan the QR code.

https://drive.google.com/uc?authuser=0&id=1sK5LCmcK8pqlb2tQa8C74rKnPVGa286T&export=download
Features of the App

• Offline Application.
• Android Version 4.1 platform.
• Present size is 4.8 MB.
• Currently application is in English language, but its Hindi version would be launched soon.
• It is specially designed to assist researchers, extension personnel of agriculture and farmers for effective management of Orchids.
• For feedback, a specific e-mail support is provided, through which they can send feedback/queries to the developers or they choose direct SMS support in it.
• For more guidance about the orchids, choose more info for contact detail or organisation.

Content of the App

• The major contents covered in the App are as follows:
  • Five genera covered namely Cymbidium, Dendrobium, Phalaenopsis, Vanda & Mokara.
  • Each species contain their introduction, different varieties with picture presentation and management techniques that simplify farmer’s doubts and daily basis problems.
  • Extension Activities, Technologies, More Info & Feedback are some additional content.
  • Management and Control of Insect & diseases (under various subheads of What & Why, Symptoms, Treatment and Prevention)
Screen shots of Orchids Farming app

Main screen

Home screen
Screen shots of Orchids Farming app

5 Genera of orchids

Cymbidium home screen
Screen shots of Orchids Farming app

Technologies for Commercialization

1. Aranda Kunga Gyasto
2. Dendrobium V. Nagaraju
3. Darjeeling Delight
4. Darjeeling Nymph
5. Apomixis in Zygopetalum for true to type planting material production

Biotechnology and Tissue culture

Crop production & Post Harvest Technology

Crop Protection

Brief Detail

1. It has been developed by crossing a between a hybrids (Cym Sleeping Nymph) and a native species (Cymbidium lowianum). This variety is suitable for cut flowers and recommended for cultivation in Darjeeling, west Bengal and Sikkim.

2. This is first hybrid developed and registered with International Orchid Registration Authority, RHS, London from the Institute.

3. This will produce 1-2 spikes after one year and which is going to increase as the age & size of plant going to increase. Spike of this variety will fetch rupees 50-100 in the local market.

4. This variety is appreciated by the local farmers of Darjeeling; further large scale production of planting material of this variety is under process for distribution to the farmers.

5. This variety is suitable for the areas of Darjeeling Hills, Kalimpong Hills of West Bengal, Sikkim, Arunachal Pradesh, Himachal Pradesh and Uttarakhand.
Screen shots of Orchids Farming app

Technologies with image

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Extension activities

1. Transfer of technology developed by the institute
2. Front Line Demonstration
3. Capacity building of orchid growers
4. Awareness programme on orchid cultivation, orchid conservation, etc.
5. Conducting training programmes to farmers, extension personnel, State Department Officials, etc.
Screen shots of Orchids Farming app

More Info

Feedback page

**Developer**
1. Mr. Ankur Tomar
   Technical Assistant (T-3) Computer
2. Mr. Ravi Kishore Pamarthi
   Scientist

**Source of Information**
Annual Reports, NEWS Letters of ICAR-NRCO

**Acknowledgement**
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